



C20-CAI-502/CM-503

**7637**

**BOARD DIPLOMA EXAMINATION (Inst.), (C-20)**

**JULY—2023**

**DCME – FIFTH SEMESTER EXAMINATION**

**SOFTWARE ENGINEERING**

*Time : 3 hours ]*

*[ Total Marks : 80*

---

**PART—A**

3×10=30

**Instructions :** (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Write any three differences between programs and software products.
2. Define risk assessment.
3. List the characteristics of a good SRS document.
4. What is a good software design?
5. What is testing?
6. State the responsibilities of a software project manager.
7. Define cohesiveness.
8. Write the purpose of use case diagram.
9. Define reliability growth modeling.
- \* 10. Define statistical testing.

\*

**PART—B**

8×5=40

\*

- Instructions :** (1) Answer **all** questions.  
(2) Each question carries **eight** marks.  
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

**11.** (a) Explain the classical waterfall model.

**(OR)**

(b) Explain early computer programming and object oriented design.

**12.** (a) Explain SPMP document.

**(OR)**

(b) Explain risk management.

**13.** (a) Explain SRS with all contents and functional requirements.

**(OR)**

(b) Write the procedure to documenting the functional requirements.

**14.** (a) Describe component based GUI development window system and list out the types of widgets.

**(OR)**

(b) Classify cohesion and coupling in detail.

**15.** (a) Explain program analysis tools like static and dynamic.

**(OR)**

(b) List and explain types of integration testing.

\*

## PART—C

10×1=10

\*

- Instructions :**
- (1) Answer the following question.
  - (2) The question carries **ten** marks.
  - (3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 16.** Draw a sequence diagram for the scenario of “Raju, a patron, goes to the library and checks out a book. Two months later, he brings overdue library book back to the library”.

□□□

\*

\*